

FIG. 1

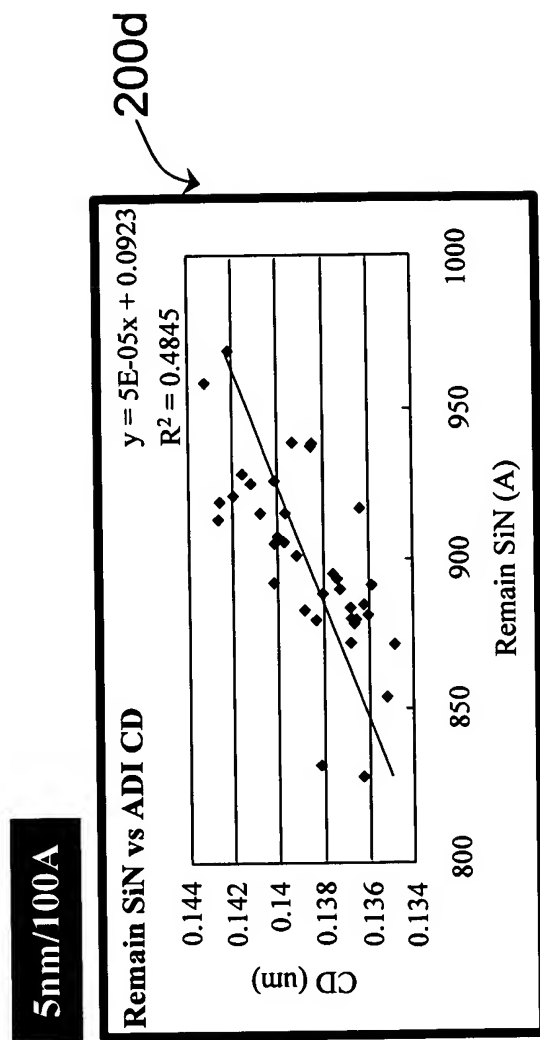


FIG. 2A

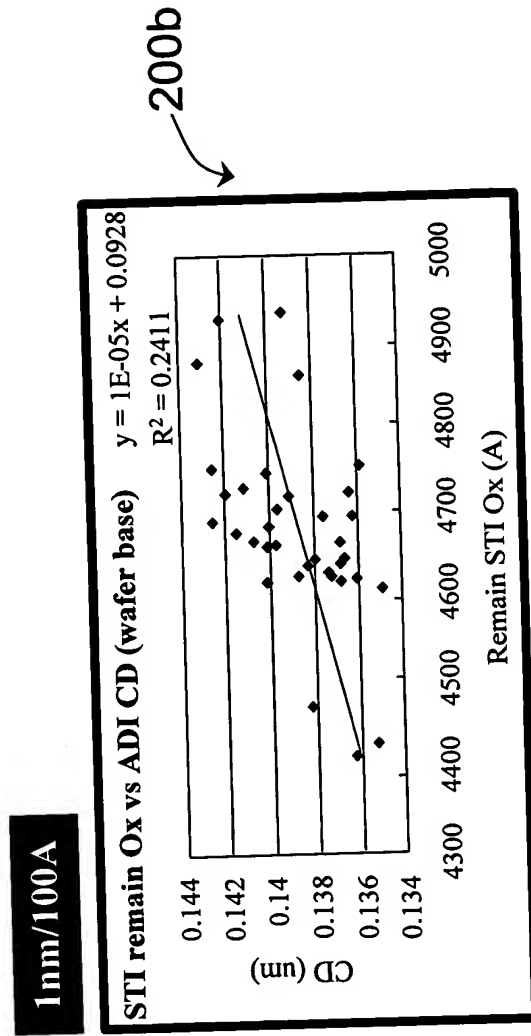


FIG. 2B

$$\begin{aligned}
 CD &= 5 \times 10^{-5} SiN + 0.0939 \\
 (CD - CD_{target}) &= 5 \times 10^{-5} (SiN - SiN_{target}) \\
 (CD - 0.138) &= 5 \times 10^{-5} (SiN - 882) \\
 \Delta E_{fit} &= \lambda_{slope} \times 5 \times 10^{-5} (SiN - 882)
 \end{aligned}$$

300

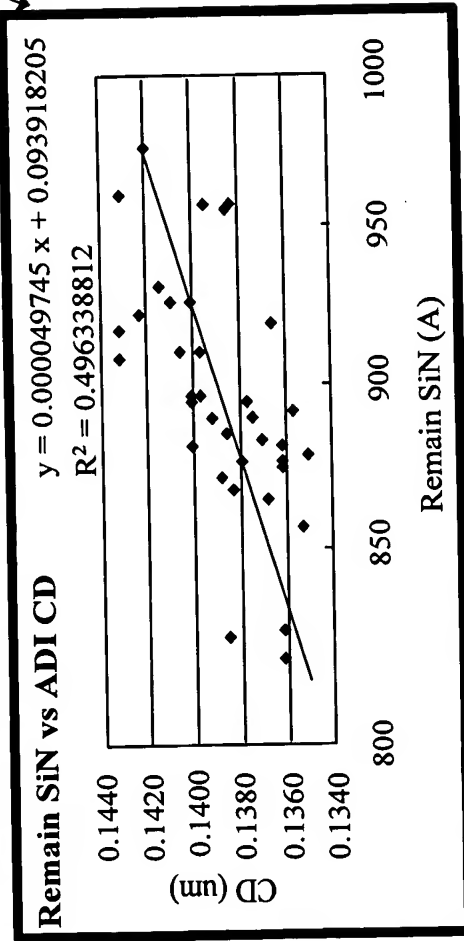


FIG. 3

Segment 1 $\Delta CD = -0.4929x(SiN - 805)/10^4 SiN < 870$
 Segment 2 $\Delta CD = 1.0545x(SiN - 891)/10^4 870 \leq SiN < 920$
 Segment 3 $\Delta CD = -1.8435x(SiN - 942)/10^4 920 \leq SiN < 940$
 Segment 4 $\Delta CD = 1.3408x(SiN - 931)/10^4 SiN \geq 940$

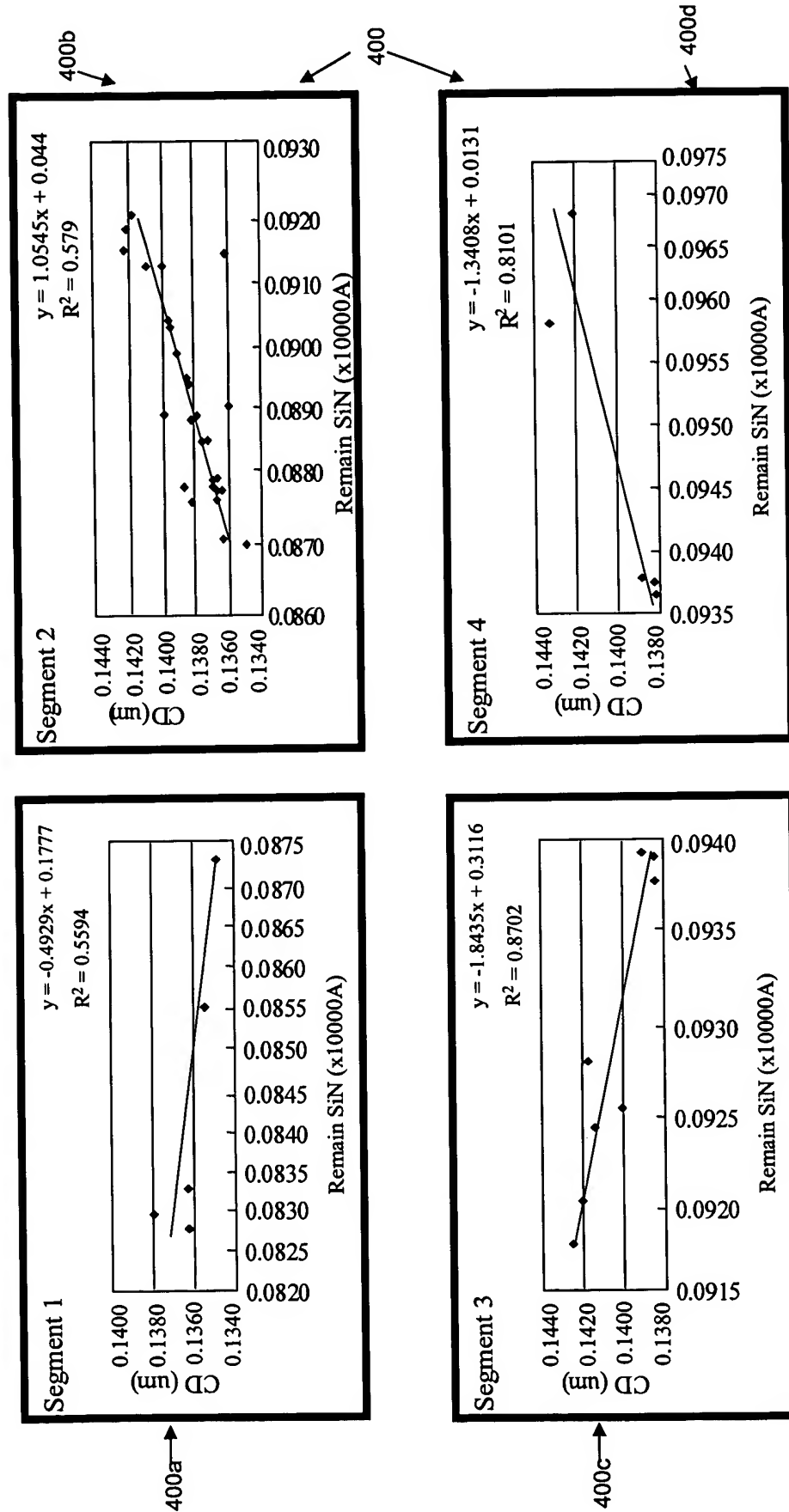


FIG. 4

$$CD = -35485.98743 \times SiN^3 + 9437.96146 \times SiN^2 - 835.46149 \times SiN + 24.75252$$

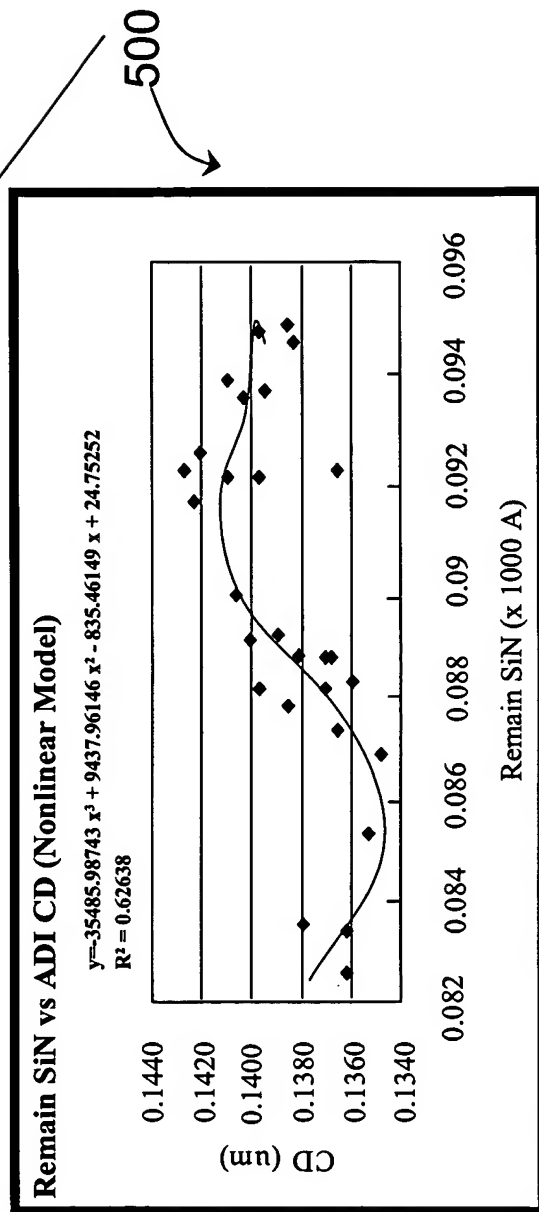


FIG. 5

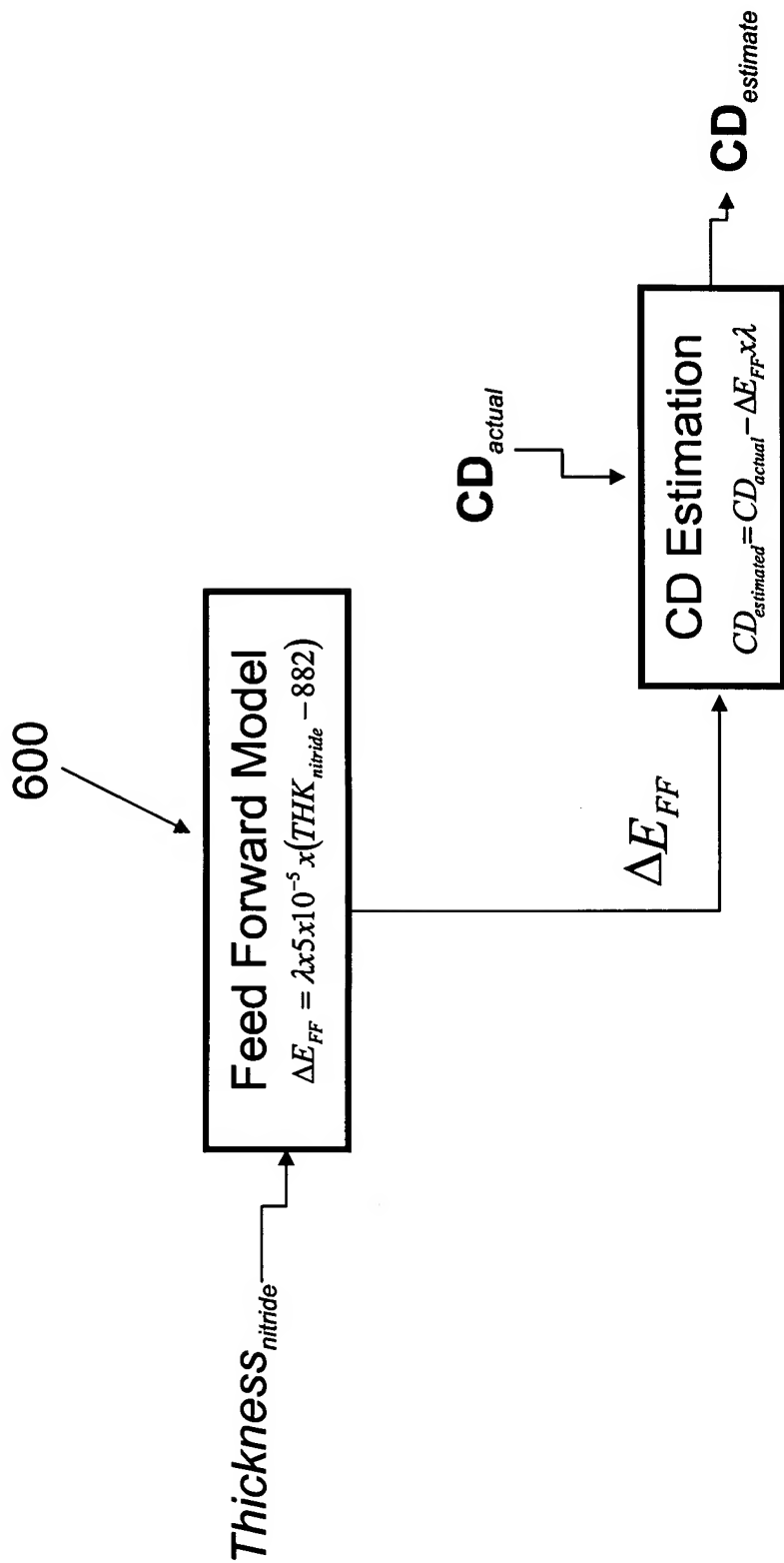


FIG. 6

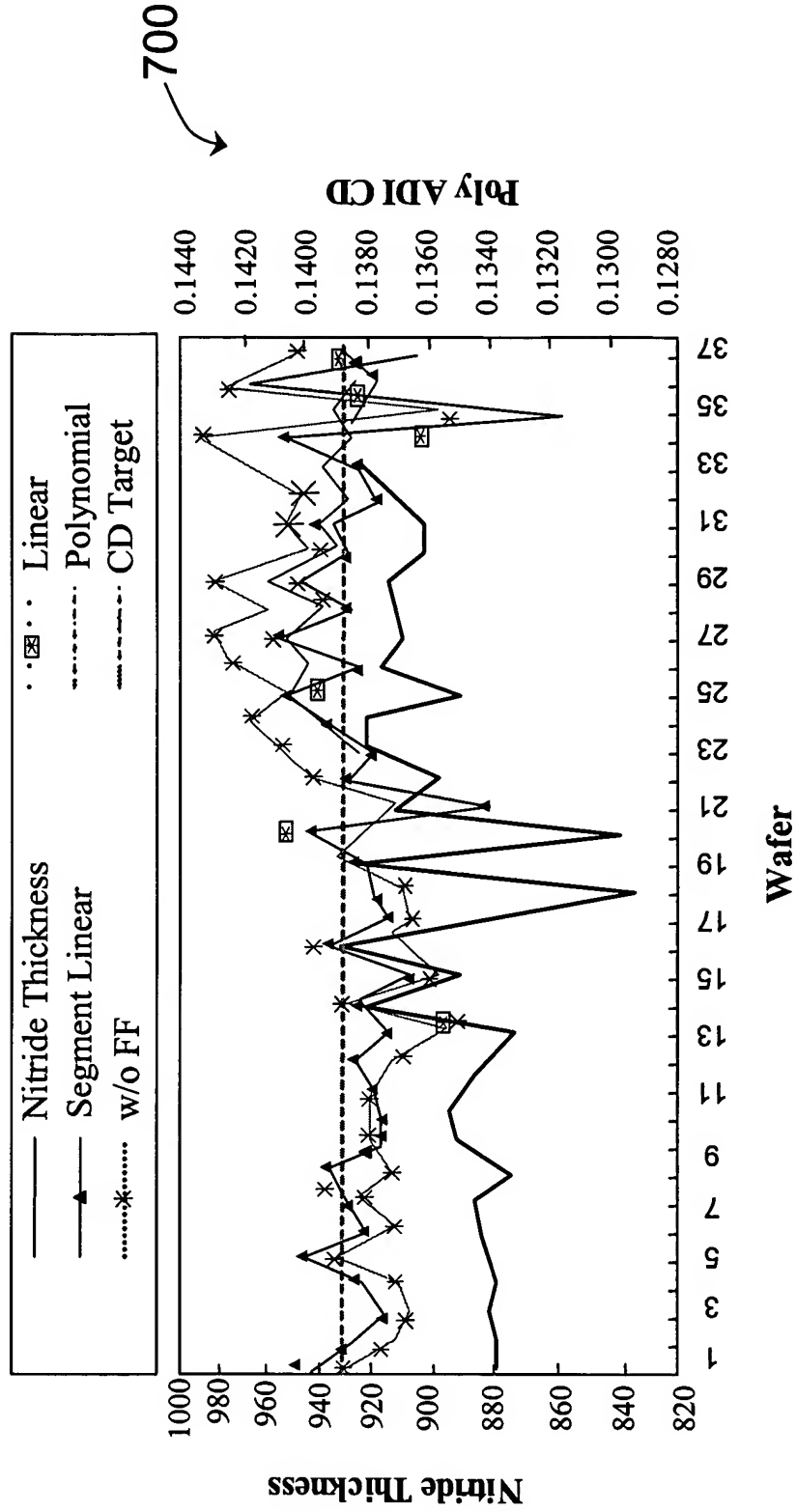


FIG. 7

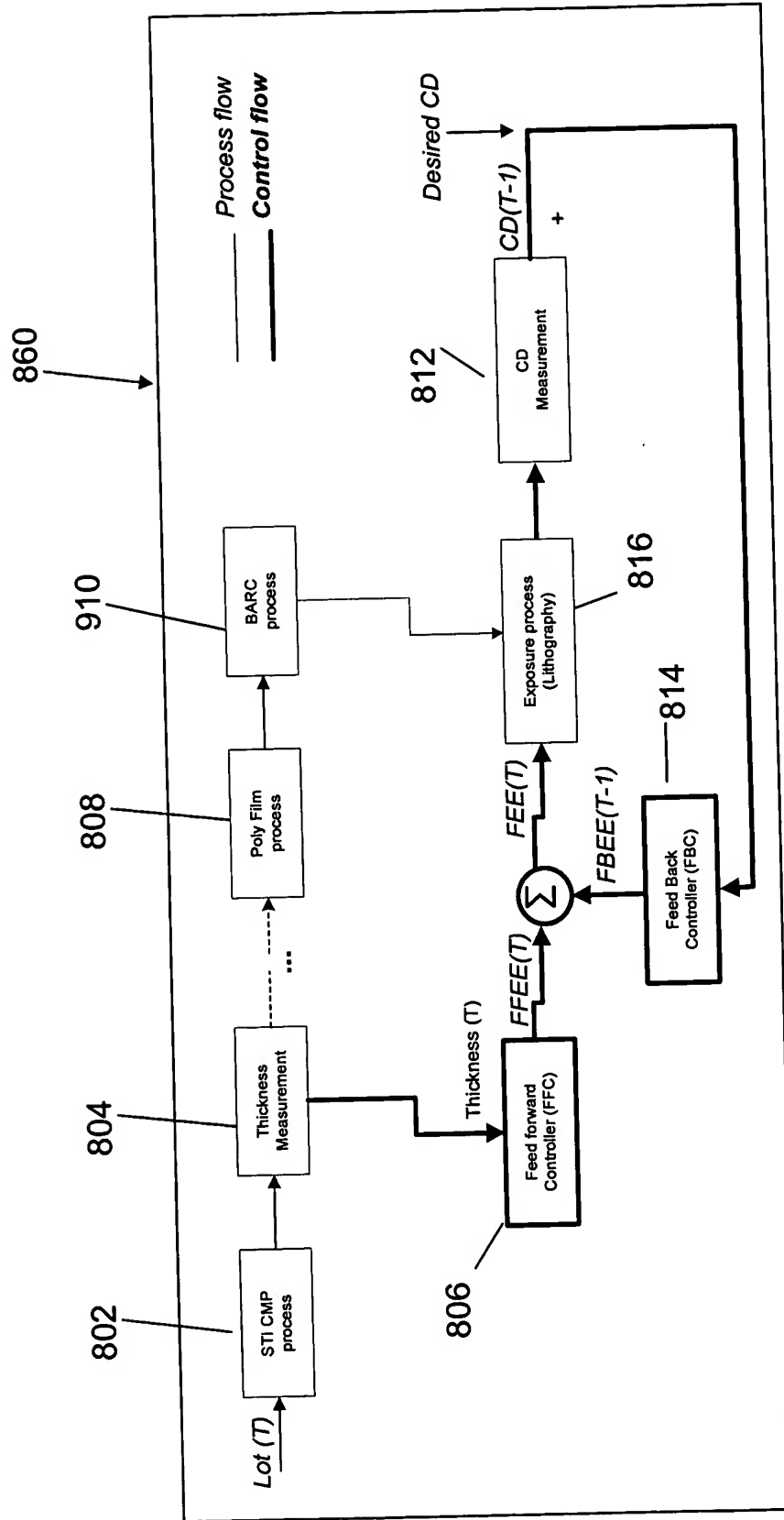


FIG. 8